



May 13, 2019

Mr. Frank Battaglia
USEPA
RCRA Corrective Action
5 Post Office Square, Suite 100
Boston, MA 02109-3912

Mr. Jeffrey Crawford
RI DEM
Office of Waste Management
235 Promenade Street
Providence, RI 02908

Re: **REQUESTED**
Changes to CMI Work Plan
Former Ciba-Geigy Facility
Lot 1102, 180 Mill Street
Cranston, Rhode Island

Dear Frank and Jeff:

As of January 4, 2019, BASF completed the removal of PCB-impacted soils and the installation of a partial protective clean soil cover that includes the required sub-grade material in accordance with the Final Corrective Measures Implementation Work Plan (CMI WP), final dated April 30, 2018, which was approved by EPA on June 19, 2018 (liner material where remaining PCB concentrations exceed 10 ppm, and geocomposite over all remaining PCB soil impacts > 1 ppm), and a uniform one foot of clean soil, seeded and maintained to date. The one-foot soil cover was placed and maintained to provide a protective cover until weather conditions conducive to finalizing the soil cover and vegetation support are realized. Remaining field work includes final clean soil cover installation to required protectiveness metrics (material thickness) and associated contouring and vegetation planting. These items are planned to be implemented immediately after approval of this request for CMI WP modification with associated Attachments. Specifically, two considered minor changes in the approved CMI Work Plan are now proposed to better position a portion of the covered area to potentially be modified as a parking area (at present only a conceptual possibility) in accordance with the ELUR as contemplated in the CMI WP, and to be recorded with the property deed.

FINAL
COVER
MOO

Requested Change No. 1: Alter clean soil cover contouring and vegetation plan

BASF proposes to modify the soil cover contouring and vegetation plan to support the potential future use of a portion of the property as a parking lot, specifically that portion that is beyond the 200-foot setback from the river. This potential future use is supported by the contouring and vegetation plan provided in drawings RC-7 and RL-1 through 4. The plan includes the following changes

- **Vegetation:** The area beyond the 200' river setback will be maintained as an open field and planted with a wildflower mix, instead of the originally conceived upland habitat vegetation.
- **Contouring:** The area beyond the 200' setback will have a uniform grade, and the following alterations are proposed to accommodate surface water runoff control requirements associated with this design and potential parking area re-design (see drawing RC-7).
 - Stormwater retention basins have been moved to the periphery of the new open field.



- In the case that the open field is redesigned to support a parking area and assuming an impervious surface, stormwater flows from this area will be directed to the south toward several stormwater retention areas or towards lined tree wells which would be positioned in the central and peripheral portions of the property. Conceptually, stormwater runoff would follow the final grades depicted on drawing RC-7. Note that any property redevelopment beyond what is presented here will, at a minimum, be constrained by the ELUR as contemplated in the CMI WP, and to be recorded with the property deed.

GRAVEL/
CRUSHED
STONE
OR
ASPHALT

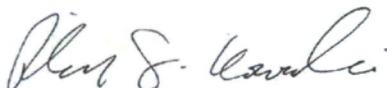
Requested Change No. 2: Modify clean soil cover design to support stormwater retention areas

To support the proposed contour plan and surface water runoff controls, it is proposed to alter the cover associated with the stormwater retention areas to consist of 6-inches of crushed stone laid over 6-inches of imported compliant soil, instead of 24-inches of compliant soil. This modification will avoid the need to import considerable compliant fill material to otherwise provide the design slopes. This modification is consistent with the CMI WP, Section 4.2.2, which specifies the option of installing a 1 ft soil cover (as described above) in the retention areas in the event that a 24-inch soil cover could not be physically constructed. This approach also remains consistent with the approved flood storage volume specified in the FEMA-approved Conditional Letter of Map Revision (CLOMR) issued to BASF on September 24, 2018 (Case#: 18-01-1205R).

For any questions, please do not hesitate to call. Thank you.

Sincerely,

AEI Consultants



Richard G. Kowalski, CPG, LSP, CHMM
Senior Hydrogeologist

Attachment

C: Joseph Guarnaccia, BASF



PROJECT
BASF FORMER CIBA-GEIGY FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND

CLIENT
AEI CONSULTANTS
112 WATER STREET, 5TH FLOOR
BOSTON, MA 02109

DRAWING TITLE
LANDSCAPE PLAN

DATE
05.09.19

BY
LBD

NO.
1701

REVISIONS
LANDSCAPE UPDATED TO REFLECT REVISED GRADING

PROJECT NO.
1701

DATE
SEPTEMBER 1, 2017

SCALE
1" = 20'

DRAWN BY
LBD

CHECKED BY
SPC

DRAWING NUMBER
RL-1

SHEET 1 OF 4

LANDSCAPE ELEMENTS, LLC
Landscape Architecture
Landscape Ecology
Cultural Landscape Preservation
200 Centerville Road, Suite 200, Cranston, RI 02908
T 401.921.2887 F 401.921.2888
www.LandscapeElementsLLC.com

MIX FOR INFILTRATION BASINS

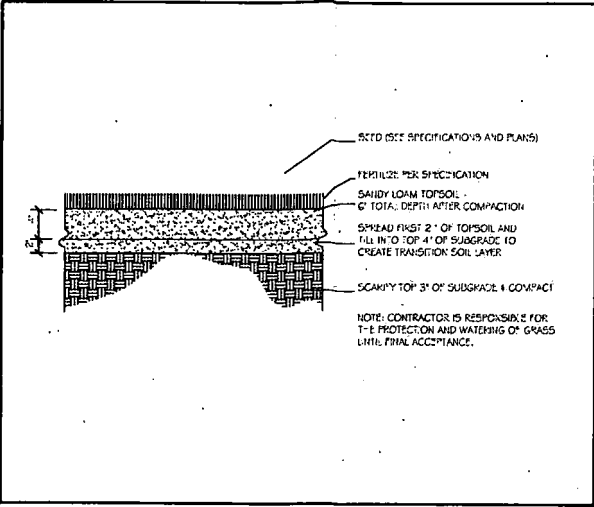
NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES - SPEC SHEET (PDF)

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE GENERALLY MOIST, RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN APPROPRIATE SEED MIX FOR ECOLOGICALLY SENSITIVE RESTORATIONS THAT REQUIRE STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION.

THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT HOLD STANDING WATER. MANY OF THE PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING. THE MIX MAY BE APPLIED BY HAND, BY MECHANICAL SPREADER, OR BY HYDRO-SEEDER. AFTER SOWING, LIGHTLY RAKE, ROLL, OR CULTIPACK TO INSURE GOOD SEED TO SOIL CONTACT. BEST RESULTS ARE OBTAINED WITH A SPRING OR LATE SUMMER SEEDING. LATE FALL AND WINTER DORMANT SEEDING REQUIRES AN INCREASE IN THE APPLICATION RATE. A LIGHT MULCHING OF CLEAN, WEED-FREE STRAW IS RECOMMENDED.

APPLICATION RATE: 35 LBS/ACRE | 1250 SQ FT/LB
PRICE: \$37.00/BULK POUND
MINIMUM ORDER: 3 LBS

SPECIES: RIVERBANK WILD RYE (ELYMUS RIPARIUS), CREEPING RED FESCUE (FESTUCA RUBRA), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), BIG BLUESTEM (ANDROPOGON GERARDII), SWITCH GRASS (PANICUM VIRGATUM), UPLAND BENTGRASS (AGROSTIS PERENNANS), NODDING BUR MARIGOLD (BIDENS CERNUA), HOLLOW-STEM JOE PYE WEED (EUPATORIUM FISTULOSUM/EUTROCHUM FISTULOSUM), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), BONESET (EUPATORIUM PERFOLIATUM), BLUE VERVAIN (VERBENA HASTATA), SOFT RUSH (JUNCUS EFFUSUS), WOOL GRASS (SCIRPUS CYPERINUS).



WILDFLOWER AND CONSERVATION SEED MIX
NOT TO SCALE

RI STATE WILDFLOWER MIX

58% LANCE
LEAVED COREOPSIS 25 MIXED TO RI
58% STATE SPECS

22% OXEYE
DAISY

10% WHITE
YARROW

10% BLACK EYED
SUSAN

F.5.2.2. BIORETENTION SOIL

THE SOIL SHOULD BE A UNIFORM MIX, FREE OF STONE, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES SHOULD BE MIXED OR DUPED WITH IN THE BIORETENTION AREA THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS. THE BIORETENTION SOIL SHOULD BE FREE OF NOXIOUS WEEDS.

THE BIORETENTION SYSTEM SHALL UTILIZE PLANTING SOIL HAVING A COMPOSITION AS FOLLOWS:

SAND: 85 - 88%
SOIL FINES: 8 TO 12% (NO MORE THAN 2% CLAY)
ORGANIC MATTER: 3 - 5%

*NOTE: FOR BIORETENTION APPLICATIONS WITH A SOIL DEPTH OF LESS THAN 4 FEET, ADD 20% (BY VOLUME) OF WELL AGED (3 MONTHS), WELL AERATED, LEAF COMPOST (OR APPROVED EQUIVALENT) TO THE ABOVE PLANTING SOIL MIXTURE. WHERE SOIL FINES CONTENT IS LESS THAN 12%, ADD A CORRESPONDING % OF LEAF COMPOST.

A TEXTURAL ANALYSIS IS REQUIRED TO ENSURE THE BIORETENTION SOIL MEET THE SPECIFICATION LISTED ABOVE. THE BIORETENTION SOIL SHOULD ALSO BE TESTED FOR THE FOLLOWING CRITERIA:

PH RANGE 5.2 - 7.0
MAGNESIUM NO TO EXCEED 32 PPM
PHOSPHORUS P₂O₅ NOT TO EXCEED 69 PPM
POTASSIUM K₂O NOT TO EXCEED 78 PPM
SOLUBLE SALTS NOT TO EXCEED 500 PPM

ALL BIORETENTION AREAS SHOULD HAVE A MINIMUM OF ONE TEST. EACH TEST SHOULD CONSIST OF BOTH THE STANDARD SOIL TEST FOR PH, PHOSPHORUS, AND POTASSIUM AND ADDITIONAL TESTS OF ORGANIC MATTER, AND SOLUBLE SALTS.

SINCE DIFFERENT LABS CALIBRATE THEIR TESTING EQUIPMENT DIFFERENTLY, ALL TESTING RESULTS SHOULD COME FROM THE SAME TESTING FACILITY.

SHOULD THE PH FALL OUT OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED (HIGHER) WITH LIME OR (LOWER) WITH IRON SULFATE PLUS SULFUR.

NEW ENGLAND WETLAND PLANTS, INC.

820 WEST STREET, AMHERST, MA 01002
PHONE: 413-540-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM
New England Conservation/Wildlife Mix

Botanical Name	Common Name	Indicator
<i>Elymus virginicus</i>	Virginia Wild Rye	FACW-
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU-
<i>Andropogon gerardii</i>	Big Bluestem	FAC
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Sorghastrum nutans</i>	Indian Grass	UPL
<i>Panicum virgatum</i>	Switch Grass	FAC
<i>Chamaecrista fasciculata</i>	Partridge Pea	FACU
<i>Desmodium canadense</i>	Showy Tick Trefol	FAC
<i>Asclepias tuberosa</i>	Butterfly Milkweed	NI
<i>Bidens frondosa</i>	Beggar Ticks	FACW
<i>Eupatorium purpureum (Eutrochium maculatum)</i>	Purple Joe Pye Weed	FAC
<i>Rudbeckia hirta</i>	Black Eyed Susan	FACU-
<i>Aster pilosus (Synthyris pilosum)</i>	Heath (or Hairy) Aster	UPL
<i>Solidago juncea</i>	Early Goldenrod	

PRICE PER LB. \$39.50 MIN. QUANTITY 2 LBS. TOTAL: \$79.00 APPLY: 25 LBS/ACRE (1750 sq ft/lb)

The New England Conservation/Wildlife Mix provides a permanent cover of grasses, wildflowers, and legumes for both good erosion control and wildlife habitat value. The mix is designed to be a no maintenance seeding, and is appropriate for cut and fill slopes, detention basin side slopes, and disturbed areas adjacent to commercial and residential projects.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is \$/bulk pound, FOB warehouse, Plus \$11 and applicable taxes.

INFILTRATION BASIN SEED MIX - APPLICATION RATE 3.5 PER 1,000 SF.

35% TURF TYPE TALL FESCUE
20% SMOOTH BROMEGRASS
30% CREEPING RED FESCUE
5% KENTUCKY BLUEGRASS
10% REDTOP

PROJECT
BASF FORMER CIBA-GEIGY
FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND

BASF
We create chemistry

AEI Consultants

CLIENT
AEI CONSULTANTS
112 WATER STREET, 5TH FLOOR
BOSTON, MA 02109

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE
LANDSCAPE DETAILS 3

NO.	DATE	REVISIONS	BY
1	5-08-18	SHEET REPLACED	

PROJECT NO.: 1701

DATE: SEPTEMBER 1, 2017

SCALE: 1" = 20'

DRAWN BY: LBD

CHECKED BY: SPC

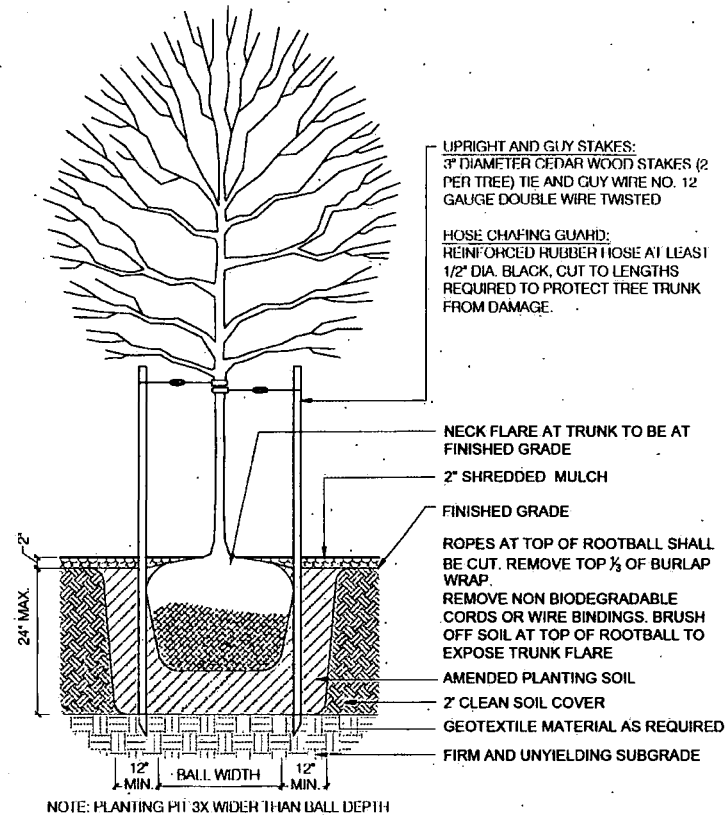
DRAWING NUMBER

RL-4

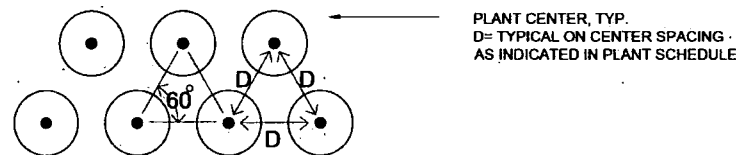
SHEET 1 OF 4

Landscape Elements, LLC

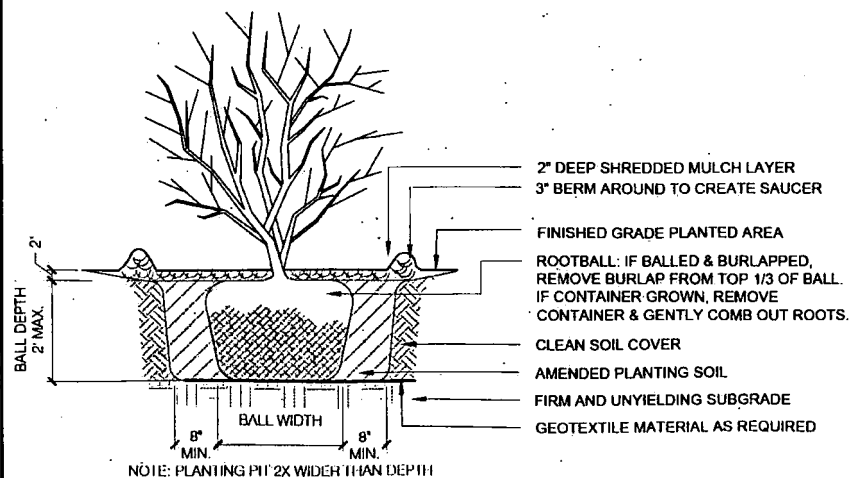
Landscape Architecture
Landscape Ecology
Cultural Landscape Preservation
200 Centerville Road, Suite 6, Warwick, RI 02886
T 401.921.2687 F 988.203.7898
www.landscapeelementsllc.com



1 TREE PLANTING
SCALE: NTS



2 SHRUB AND HERBACEOUS PLANT SPACING
SCALE: NTS



3 SHRUB CONTAINER PLANTING
SCALE: NTS

GENERAL PLANTING NOTES:

- 1) Containerized shrubs will be planted as shown on plant schedule.
- 2) For containerized stock, all plants should be pre-inspected by the planting contractor to help ensure quality, proper hardening (2-week minimum), and species correctness. Any dead, dying, stressed, or badly "root-bound" plants will be rejected. Holes will be dug twice the width and equal to the depth of the root ball of the plant. Holes will be watered before planting, then filled, tamping down the soil to remove air pockets, and watered again immediately. Care should be taken to ensure that the installed containerized materials are not covered by mulch at the time of product application.
- 3) The seed should be applied through broadcast seeding, hand-raked to 1/4-to 3/4-inch depth to minimize seed loss, then surface-pressed through a water-filled press-wheel to facilitate good seed-to-soil contact. All seed must be labeled as "certified" and should not include the presence of noxious or invasive species prohibited by the State of Rhode Island. All seed should be inspected prior to installation and all tags must be maintained for documentation by the resident engineer. Prior to delivery, seed should be processed by the seed provider on a "gravity-table" to remove non-target seed types and potentially invasive species. Seeding will only be performed between September 1 and when the ground freezes and when the ground thaws and June 1st.
- 4) No equipment will be allowed in the restoration area after seeding or planting.
- 5) Chemical and/or mechanical weed abatement should be facilitated by the client to assist in eradication of invasive and noxious weeds. The control of noxious and/or invasive species should be based upon site monitoring for a minimum of three-growing seasons following establishment. An iterative weed management plan should be implemented by the client based upon the results of monitoring.
- 6) Construction equipment, fuels, and other petroleum products shall not be stored or stockpiled with 50 feet of the creek or other aquatic habitats. Fueling should only occur within approved designated areas.

PROJECT
BASF FORMER CIBA-GEIGY
FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND



CLIENT
AEI CONSULTANTS
112 WATER STREET, 5TH FLOOR
BOSTON, MA 02109

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawucket, Rhode Island



DRAWING TITLE
PLANT DETAILS, NOTES,
& SCHEDULE

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1701

DATE: FEBRUARY 2018

SCALE: AS NOTED

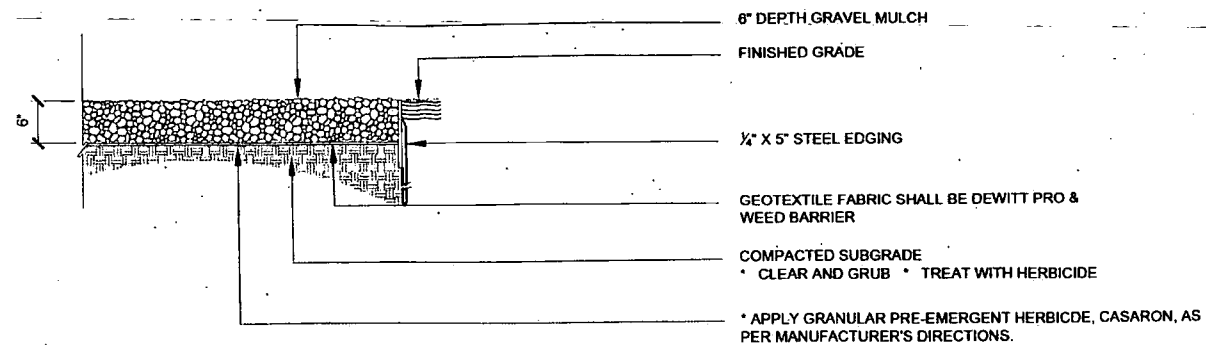
DRAWN BY: MK

CHECKED BY: LG

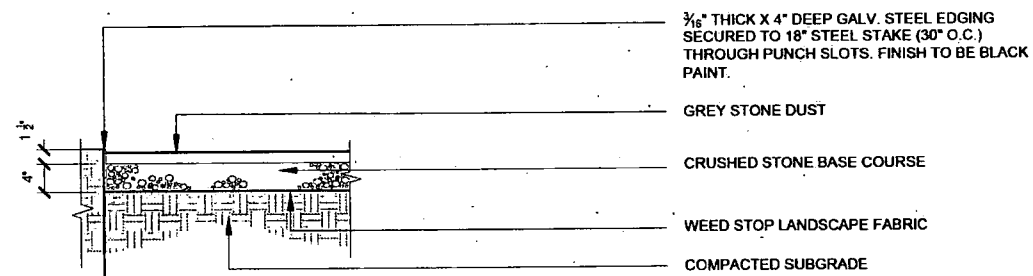
DRAWING NUMBER
RL-2

SHEET X OF X





1 PEA GRAVEL MULCH
SCALE: NTS



2 STONE DUST PATHWAY
SCALE: NTS



PROJECT
BASF FORMER CIBA-GEIGY
FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND



CLIENT
AEI CONSULTANTS
112 WATER STREET, 5TH FLOOR
BOSTON, MA 02109

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island



DRAWING TITLE
SITE DETAILS

NO.	DATE	REVISIONS	BY

PROJECT NO.: 1701

DATE: FEBRUARY 2018

SCALE: AS NOTED

DRAWN BY: MK

CHECKED BY: LG

DRAWING NUMBER

RL-3

SHEET X OF X



FIGURE 1

PROJECT
BASF FORMER CIBA-GEIGY
FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND

BASF
We create chemistry

AEI
Consultants
Environmental & Engineering Services

CLIENT
AEI CONSULTANTS
112 WATER STREET, 5TH FLOOR
BOSTON, MA 02109

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island



DRAWING TITLE
FINAL GRADING PLAN

NO.	DATE	REVISIONS	BY
1	11/28/17	SHEET REVISED PER COMMENTS	

PROJECT NO.: 1701

DATE: SEPTEMBER 1, 2017

SCALE: 1" = 20'

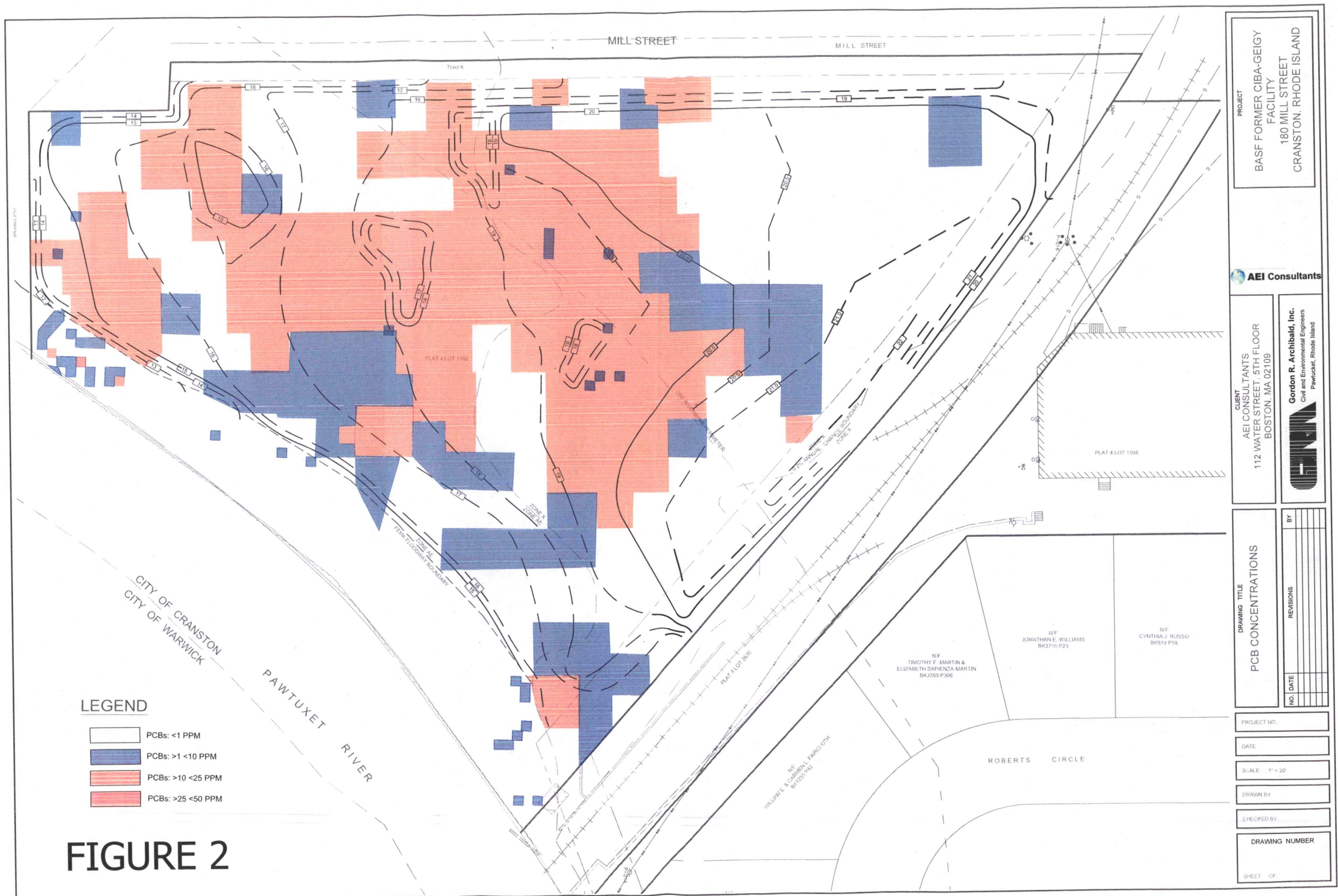
DRAWN BY: LBD

CHECKED BY: SPC

DRAWING NUMBER

C-7

SHEET 8 OF 17



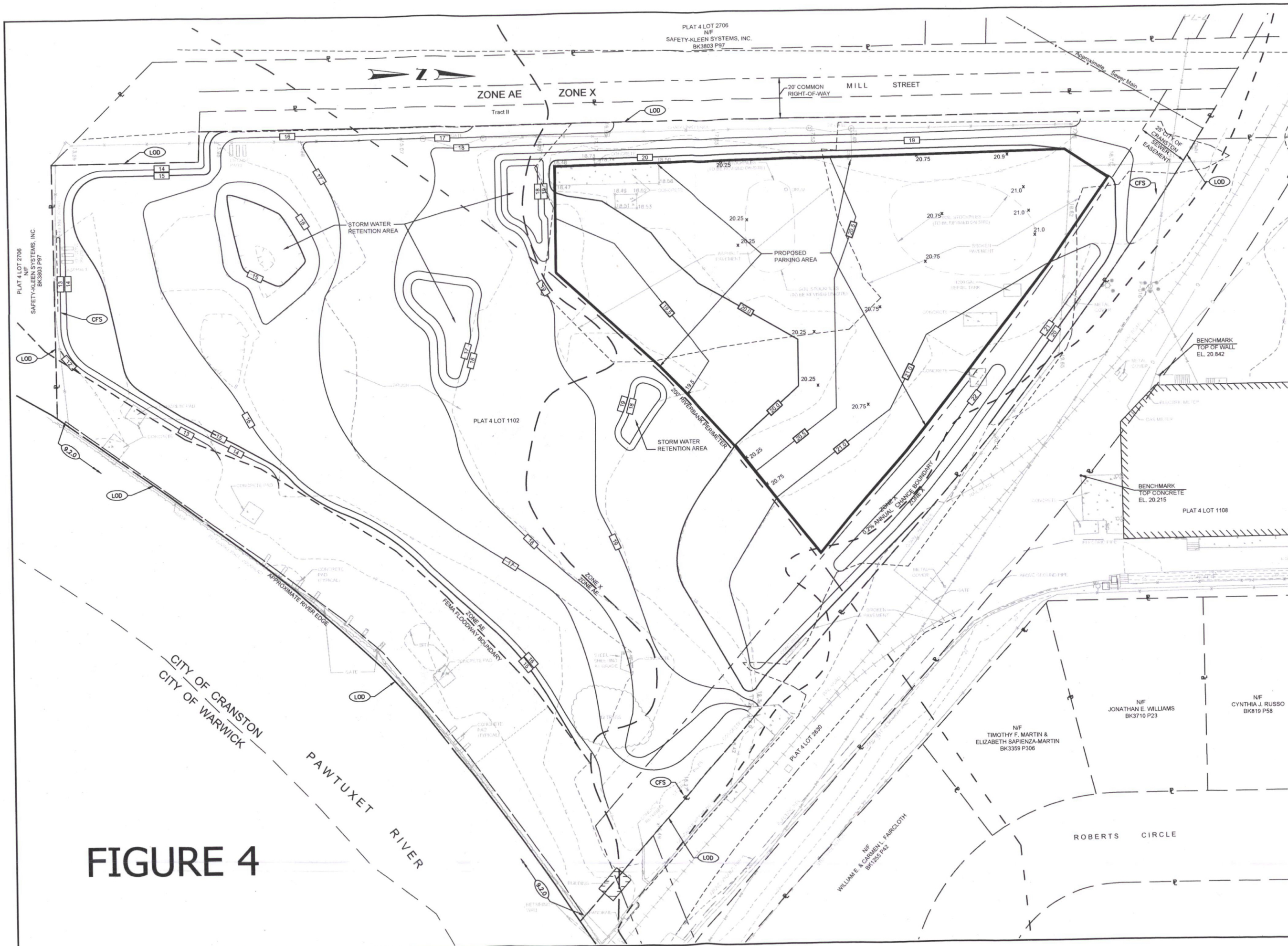


FIGURE 4

PROJECT

BASF FORMER CIBA-GEIGY FACILITY

180 MILL STREET

CRANSTON, RHODE ISLAND

BASF

We create chemistry

AEI Consultants

CLIENT

AEI CONSULTANTS

112 WATER STREET, 5TH FLOOR

BOSTON, MA 02109

Gordon R. Archibald, Inc.

Civil and Environmental Engineers

Pawtucket, Rhode Island

DRAWING TITLE

FINAL GRADING PLAN WITH PROPOSED PARKING AREA

NO.	DATE	REVISIONS	BY
1	11/28/17	SHEET REVISED PER COMMENTS	
2	4/18/19	REVISED GRADING	
3	5/22/19	REVISED FINAL GRADING AND LIMIT OF DISTURBANCE	

PROJECT NO.: 1701

DATE: SEPTEMBER 1, 2017

SCALE: 1" = 20'

DRAWN BY: LBD

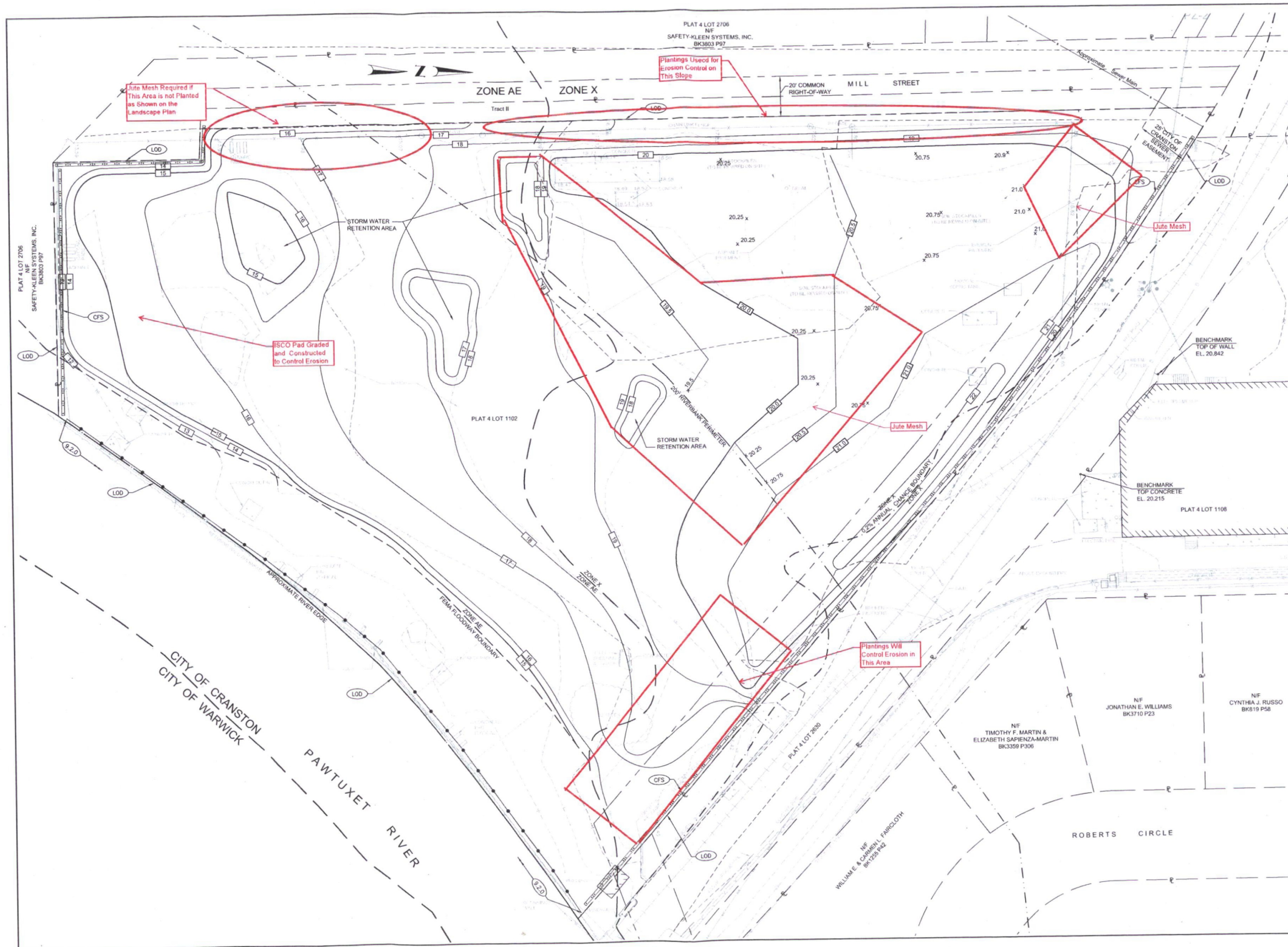
CHECKED BY: SPC

DRAWING NUMBER

RC-7

SHEET 1 OF X

FILED 02/07/17 BY: [illegible] AT: [illegible] 10:00 AM



PROJECT

BASF FORMER CIBA-GEIGY FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND

CLIENT

AEI CONSULTANTS
112 WATER STREET, 5TH FLOOR
BOSTON, MA 02109

DRAWING TITLE

FINAL GRADING PLAN

PROJECT NO.

1701

DATE

SEPTEMBER 1, 2017

SCALE

1" = 20'

DRAWN BY

LBD

CHECKED BY

SPC

DRAWING NUMBER


C-7

SHEET 1 OF X


REVISIONS

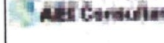
NO.	DATE	REVISIONS
1	09/01/17	ISSUED FOR PERMIT
2	09/01/17	REVISED TO REFLECT COMMENTS
3	09/01/17	REVISED TO REFLECT FINAL GRADING AND LIMIT OF DISTURBANCE

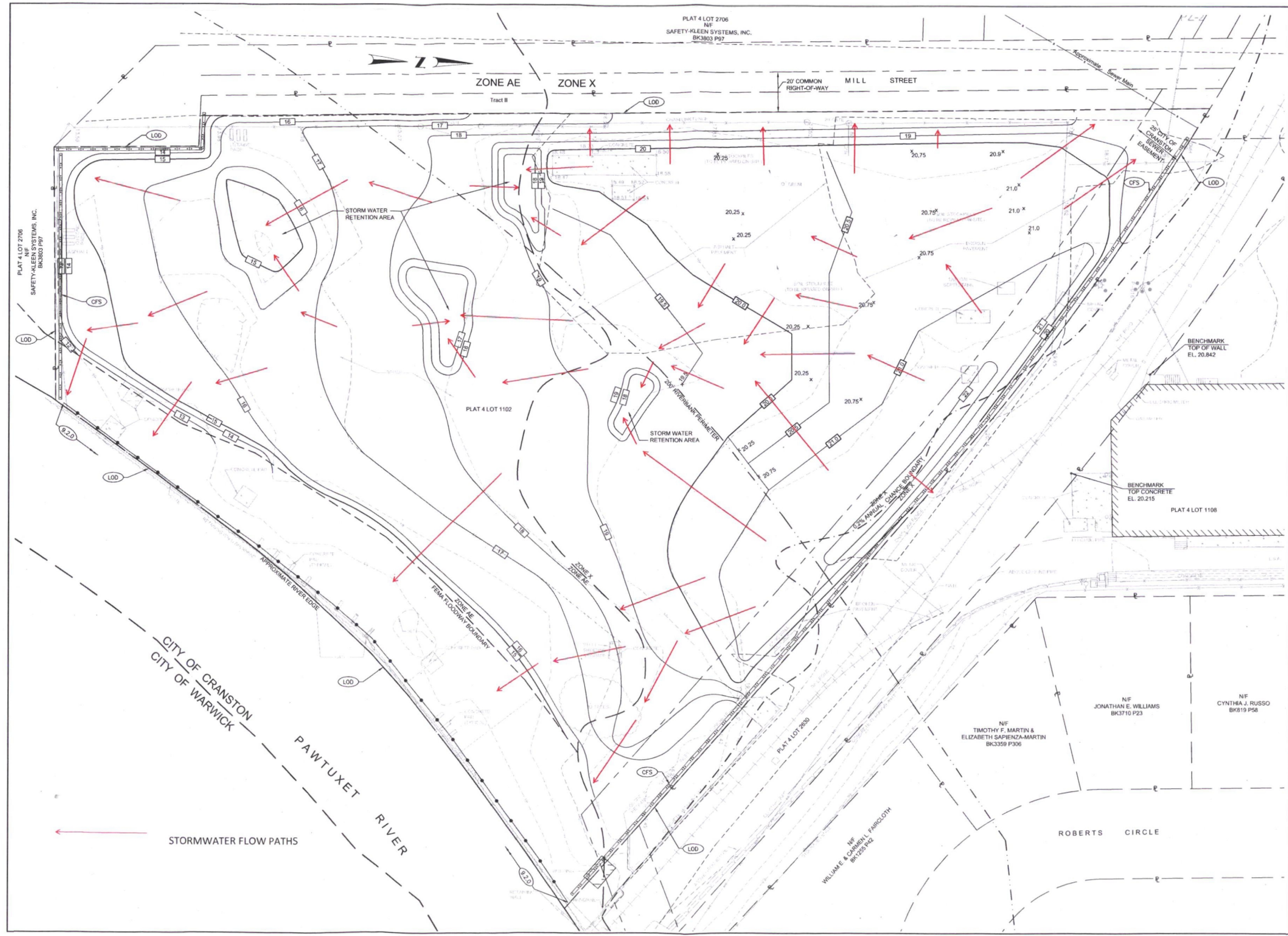
BY



Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island







PROJECT

BASF FORMER CIBA-GEIGY FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND

CLIENT

AEI CONSULTANTS
112 WATER STREET, 5TH FLOOR
BOSTON, MA 02109

DRAWING TITLE

FINAL GRADING PLAN

PROJECT NO.

1701

DATE

SEPTEMBER 1, 2017

SCALE

1" = 20'

DRAWN BY

LBD

CHECKED BY

SPC

DRAWING NUMBER

C-7

SHEET 1 OF X

NO.

DATE

REVISIONS

BY

1

10/20/17

SHEET REVISIONS PER COMMENTS

2

11/14/17

REVISED GRADING

3

12/07/17

REVISED FINAL GRADING AND LIMIT OF DISTURBANCE

PROJECT

BASF

AEI Consultants

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

FILED FOR RECORDING IN THE OFFICE OF THE CLERK OF SUPERIOR COURT, DISTRICT OF PAWTUCKET, RHODE ISLAND, ON SEPTEMBER 1, 2017, AT 10:00 AM. BY: [Signature]



- LEGEND**
- EXISTING CONTOUR
 - PROPOSED CONTOUR
 - PROPOSED SHADE TREE
 - PROPOSED UNDERSTORY TREE
 - PROPOSED DECIDUOUS SHRUB
 - PROPOSED EVERGREEN SHRUB
 - PROPOSED SHRUBBY GROUND COVER
 - PROPOSED CONSERVATION SEED MIX
 - PROPOSED INFILTRATION BASIN SEED MIX
 - PROPOSED WILDFLOWER SEED MIX

PLANTING SCHEDULE - BASF - FORMER CIBA-GEIGY PROPERTY					DATE: 05/09/19		
KEY	Botanical Name	Common Name	Quantity	Nursery Size	Root	Notes	
TREES							
AC	Acer canadensis "Lamarck"	Lamarck Serviceberry	3	5'-6' ht	B&B	Multi Trunk	
AR	Acer rubrum	Red Maple	6	2-3' caliper	B&B	Specimen	
CC	Cercis canadensis	Eastern Redbud	11	15 gallon	Cont.	Full: Plant 30'-40' on Center	
OC	Quercus coccinea	Scarlet Oak	2	2-3' caliper	B&B	Specimen	
SA	Sassafras albidum	Sargent Cherry	5	5'-6' ht	B&B	Specimen	
SHRUBS							
AA	Aronia arbutifolia	Red Chokeberry	49	2 gallon	Cont.	Full: Plant 6'-8" on Center	
AM	Aronia melanocarpa	Black Chokeberry	19	2 gallon	Cont.	Full: Plant 6'-8" on Center	
CA	Ceanothus americanus	New Jersey Tea	33	2 gallon	Cont.	Full: Plant 5'-6" on Center	
CR	Cornus racemosa	Grey Dogwood	15	2 gallon	Cont.	Full: Plant 8'-10" on Center	
GB	Gaylussacia baccata	Black huckleberry	18	2 gallon	Cont.	Full: Plant 5'-6" on Center	
IG	Ilex glabra	Boxberry	69	2 gallon	Cont.	Full: Plant 5'-6" on Center	
IT	Ilex verticillata	Sweetpire	36	2 gallon	Cont.	Full: Plant 5'-6" on Center	
LB	Lindera benzoin	Spicebush	13	2 gallon	Cont.	Full: Plant 8'-10" on Center	
MP	Myrica pensylvanica	Bayberry	20	2 gallon	Cont.	Full: Plant 8'-10" on Center	
PO	Physocarpus opulifolius	Common Noddybush	14	2 gallon	Cont.	Full: Plant 6'-8" on Center	
RA	Rhus aromatica	Sumac	20	2 gallon	Cont.	Full: Plant 6'-8" on Center	
SI	Spiraea tomentosa	Steeplebush	29	1 gallon	Cont.	Full: Plant 6'-8" on Center	
SO	Symphoricarpos orbiculata	Carallberry	10	2 gallon	Cont.	Full: Plant 6'-8" on Center	
VA	Vaccinium angustifolium	Low Bush Blueberry	140	2 gallon	Cont.	Full: Plant 5'-6" on Center	
VP	Viburnum prunifolium	Blackhaw Viburnum	28	2 gallon	Cont.	Full: Plant 8'-10" on Center	
VS	Viburnum sibiricum	Steeplebush	15	2 gallon	Cont.	Full: Plant 8'-10" on Center	
VR	Viburnum celticum	Allegheny Blackhaw Viburnum	15	2 gallon	Cont.	Full: Plant 8'-10" on Center	
SEED							
SEED MIX			COVERAGE	sq	lbs PER ACRE	lbs NOTES	
New England Conservation Wildlife			1750 of per pound	100/25	25 lbs per acre	7	Broadcast evenly
Indefinition Basin Seed Mix			2800 of per pound	100/25	25 lbs per acre	3	Broadcast evenly
New England Wildflower Seed Mix			1900 of per pound	45/500	25 lbs per acre	25	Broadcast evenly

Landscape Elements, LLC
Landscape Architecture
Landscape Ecology
Cultural Landscape Preservation
200 Centreville Road, Suite 6, Cranston, RI 02906
T 401.921.2887 F 401.921.2888
www.landscapeelementsllc.com

PROJECT

BASF FORMER CIBA-GEIGY FACILITY
180 MILL STREET
CRANSTON, RHODE ISLAND

CLIENT

AEI CONSULTANTS
112 WATER STREET, 5TH FLOOR
BOSTON, MA 02109

BY

Gordon R. Archibald, Inc.
Civil and Environmental Engineers
Pawtucket, Rhode Island

DRAWING TITLE

LANDSCAPE PLAN

PROJECT NO:

1701

DATE:

SEPTEMBER 1, 2017

SCALE:

1" = 20'

DRAWN BY:

LBD

CHECKED BY:

SPC

DRAWING NUMBER

RL-1

SHEET 1 OF 4